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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/814,241		04/01/2004	Satoru Yamagata	925-286	925-286 6954	
23117	7590	08/31/2005		EXAMINER		
		ERHYE, PC	BOOTH, RICHARD A			
901 NORTH GLEBE ROAD, 11TH FLOOR ARLINGTON, VA 22203			COOR	ART UNIT	PAPER NUMBER	
				2812		
				DATE MAILED: 08/31/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)	- Am		
				K		
	Office Action Summary	10/814,241	YAMAGATA ET AL.			
	Office Action Gammary	Examiner	Art Unit			
	71 1441 140 2477 641	Richard A. Booth	2812			
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with th	e correspondence addr	ess		
WHI(- Exte after - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR REPLICATION OF THE MAILING DISCONNECT OF	ATE OF THIS COMMUNICATI 36(a). In no event, however, may a reply be will apply and will expire SIX (6) MONTHS free, cause the application to become ABANDO	ON. The timely filed The timely filed The mailing date of this composed (35 U.S.C. § 133).			
Status	•					
1)⊠	Responsive to communication(s) filed on 17 A	ugust 2005.				
·		action is non-final.				
3)[Since this application is in condition for allowance except for formal matters, prosecution as to the merits is					
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11,	453 O.G. 213.			
Disposit	ion of Claims					
5)□ 6)⊠ 7)□	Claim(s) <u>5 and 6</u> is/are pending in the applicat 4a) Of the above claim(s) is/are withdrated Claim(s) is/are allowed. Claim(s) <u>5-6</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	wn from consideration.				
Applicat	ion Papers					
10)□	The specification is objected to by the Examine The drawing(s) filed on is/are: a) acc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine The specification is objected to be specification to the specification is objected to be specification to the specification is objected to be specification.	epted or b) objected to by the drawing(s) be held in abeyance. Stion is required if the drawing(s) is	See 37 CFR 1.85(a). objected to. See 37 CFR	, ,		
Priority :	under 35 U.S.C. § 119					
12) <u></u> a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority application from the International Burea See the attached detailed Office action for a list	ts have been received. ts have been received in Applic rity documents have been rece u (PCT Rule 17.2(a)).	eation No eived in this National St	age		
Attachmer		4) 🗍 Interview Summ	an /PTO.413\			
2) Notice	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mai	il Date			
	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) er No(s)/Mail Date	5) Notice of Inform. 6) Other:	al Patent Application (PTO-1	52)		

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 8/17/05 has been entered.

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 5-6 are rejected under 35 U.S.C. 102(b) as being anticipated by Deustcher et al., U.S. Patent 6,103,576.

Deustcher et al. shows the invention as claimed including a semiconductor memory device comprising: a semiconductor substrate 16 including a source/drain region and a channel region; a tunnel oxide film 42 formed on the channel region of the semiconductor substrate and having side walls; a floating gate 28 formed on the tunnel oxide film and having side walls; a first insulating film 106 formed on the floating gate and having side walls; a control gate 108 formed on the first insulating film and having

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side walls; and a second insulating film comprising an oxide 114" formed on the control gate, wherein: the side walls of the tunnel oxide film are at least partially receded from the side walls of the floating gate, so that the laterally outermost side walls of the tunnel oxide film are at least partially receded from the side walls of the floating gate; and the second insulating film comprising an oxide covers and contacts each of the side walls of the tunnel oxide film, the side walls of the floating gate, the side walls of the first insulating film and the side walls of the control gate (see figs. 9-13 and col. 5-line 9 to col. 7-line 12).

Concerning the preamble of claim 6, note that the preamble does not impart patentable significance to the claim unless it breathes life and meaning into the claim.

Response to Arguments

Applicant's arguments filed 8/17/05 have been fully considered but they are not persuasive. Applicant argues that the limitation "so that the laterally outermost side walls of the tunnel oxide film are at least partially receded from the side walls of the floating gate" is not shown in the Deustcher et al. reference. However, note that fig. 12 appears to show such a limitation since the oxide layer is much thicker at the ends of the floating gate and such added thickness appears to be the result of the subsequent oxidation and therefore is not a part of the tunnel oxide.

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Richard A. Booth whose telephone number is (571) 272-1668. The examiner can normally be reached on Monday-Thursday from 7:30-6:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Lebentritt can be reached on (571) 272-1873. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Kichard A Booth Primary Examiner Art Unit 2812

August 30, 2005